

THE
FIFTH ANNUAL REPORT
OF
THE COMMITTEE
OF THE
MANCHESTER AND SALFORD
SANITARY ASSOCIATION;

BEING

A SUMMARY OF THEIR PROCEEDINGS FROM NOVEMBER, 1856,
TO NOVEMBER, 1857.

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MANCHESTER AND SALFORD SANITARY ASSOCIATION.

Committee and Officers for the Year 1857-58.

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The Right Honourable the EARL of DUCIE,
The Right Honourable the EARL of ELLESMERE,
The Right Honourable the EARL of WILTON, G.C.H.

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The Right Rev. the LORD BISHOP of MANCHESTER.

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The Worshipful the MAYOR of SALFORD,
The Very Rev. the DEAN of MANCHESTER,
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Mr. J. C. BROOME.

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Mr. EASTWOOD,
Leamington Place, Brook Street.

OFFICES, 4, York Chambers, King Street.

Communications for the Central Committee may be addressed to—

Rev. CANON RICHSON, M.A., CHAIRMAN.

TO

The Honorary Secretaries { G. BOWRING, Esq., M.R.C.S.,
F. H. WALMSLEY, Esq., M.R.C.S.

OR TO

Mr. BROOME, Assistant Secretary, 4, York Chambers, King Street.

FIFTH REPORT.

THE ASSOCIATION has now completed the fifth year of its operations, and the Committee trust that if they cannot detail so many subjects of special interest requiring their attention, during the past year, as on former occasions, they can give an account of their Stewardship, which will be satisfactory to the Members generally.

(I.)—*Communications of the Committee with the Municipal and other Authorities in relation to Public Nuisances.*

MANCHESTER CITY COUNCIL.

(i.) *The River Medlock.*

The Committee have had occasion to memorialize the City Council on the condition of the river Medlock. Considering the use of the Rivers of Manchester as open common Sewers, to be one of the monster nuisances of the City, the Committee have felt it their duty to keep their attention steadily directed to this subject. So long ago as July 5th, 1854, they expressed their objection to certain works, then in progress, for the construction of a Culvert between Oxford Road and Messrs. *Birley's* Mill; and accordingly addressed the following Memorial to the Town Council :—

1ST MEMORIAL.

TO THE WORSHIPFUL THE MAYOR OF MANCHESTER, AND THE TOWN COUNCIL
OF MANCHESTER.

The MEMORIAL of the Committee of the Manchester and Salford Sanitary
Association,

Respectfully sheweth,

That your Memorialists are informed, that under the authority of the Town Council, the course of that portion of the river Medlock, which extends from Oxford-road to Messrs. *Birley's* Mill, is intended to be arched over, and a new Street formed in the neighbourhood.

That your Memorialists are also informed, that in effecting these alterations it is intended to reduce the irregularity of the Course of the River, and to make the Channel of uniform width; and that the side Walls are to be constructed in a series of straight lines, forming angles at certain bends of the River.

That your Memorialists are further informed, that there is no intention to introduce a permanent improvement in the bed of the River, nor to interfere with the Weir near Messrs. *Birley's* Mill, which, as your Memorialists believe, occasions a serious and unwholesome stoppage of the Solid Refuse brought down by the River.

That your Memorialists are convinced, that in any projected improvement of the Sewer Rivers of the District, due regard should be had to Sanitary Considerations, and that any necessary Outlay for such purpose ought not to be placed in comparison with the Health of the Inhabitants.

That your Memorialists are of opinion, that the Plan now proposed in respect to the river Medlock may be greatly improved, and they therefore respectfully recommend that the following Suggestions may receive your due consideration; that is to say:—

1st.—That the course of the river Medlock should be made to approximate as nearly as possible to a Straight Line.

2nd.—That all Angles in the Side Walls should be avoided, as facilitating the accumulation of injurious Solid Matter, and that Curved Lines should be substituted.

3rd.—That the Bed of the River should be paved, with either a curved or straight dip towards the Centre.

4th.—That to avoid the excessive discharge of Mephitic gases at the extremities of the arched course, ventilating Shafts should be connected with some of the high Chimneys or Furnaces in the neighbourhood.

5th.—That the Weir at Messrs. *Birley's* Mill should either be re-

moved, or be so constructed as to facilitate the cleansing of the Bottom of the River.

In conclusion, your Memorialists avail themselves of this opportunity to suggest, that the river Medlock should be considered by you, through its whole course, as a Main Sewer, and dealt with accordingly.

Signed on behalf of the Committee,

C. RICHSON, M.A.,

Chairman.

This document, although addressing itself to certain features of construction, which were objectionable in a Sanitary point of view, did, at the same time, touch on subjects since found to deserve attention out of other considerations ; but the Committee cannot assume that any effect was produced by this Memorial.

2ND MEMORIAL.

In the Report of last year, the Committee reported the successful results of their experiments at Knot Mill, for precipitating, by the Lime process, the Sewage Matter in the running Stream of the Medlock. The success of this experiment was undoubted, but the Committee feeling, as the representatives of a private Association, they would not be justified in incurring any further expense in the matter, addressed a Memorial to the City Council, urging their co-operation with the Owners of Property on the Banks of the Canal, to obtain a purification of the Water flowing into it from the Medlock. In the course which they thus pursued, they hoped, that if an instalment of what ought to be done in relation to the whole River could be accomplished, the force of public opinion would, in the course of time, compel the rest. Their address was, however, without effect.

The Memorial is here introduced in order to present the Subscribers with a complete view of the proceedings of the Committee in this important matter :—

TO THE WORSHIPFUL THE MAYOR AND THE CITY COUNCIL OF THE CITY OF MANCHESTER.

The MEMORIAL of the Committee of the Manchester and Salford Sanitary Association,

Respectfully sheweth,

That, in the opinion of your Memorialists, the use of the Rivers

which flow through the City of Manchester, as open common receptacles of the Sewage of the City, is in many respects highly objectionable.

That your Memorialists have caused experiments to be made in the case of the river Medlock, by competent persons, and with the assistance and co-operation of the Duke of Bridgewater's Trustees; the results of which are reported to be as follows:—

1. That the Water received into the Bridgewater Canal can be purified by the application of Lime.

2. That this can be accomplished at an annual Cost of from £300 to £400.

3. That the Deposit will have some commercial value as a Manure, although not a very great one.

Your Memorialists, accordingly, believe that the Bridgewater Canal can be purified at a trifling cost; and although when compared with the important subject of effectually preventing the use of the Rivers generally as common Sewers, the purification of the Canal can be considered only as a preliminary step; yet, as showing the practicability of purifying the River, and as manifesting the usual interest of the Corporation of Manchester in subjects affecting the Sanitary improvement of the City, and also as conferring a great benefit on persons residing near the banks of the Canal, by abating a Nuisance created in Manchester, your Memorialists consider it would be in the highest degree important.

Your Memorialists, therefore, most earnestly request, that by co-operating with the Owners or Lessees of the Duke of Bridgewater's Canal, and the Owners of Property on its banks, within a limited distance of the City, or by such other means as you may deem preferable, you would endeavour to secure the speedy and effectual Purification of the Water which flows from the river Medlock into that Canal.

Signed on behalf of the Committee,

C. RICHSON, M.A.,

Canon of Manchester, Chairman.

3RD MEMORIAL.

In the latter part of the summer of 1856, and about the same period in the present year, floods of a very violent character caused considerable damage to property situate on the Banks of the Medlock, within the City; and as it was alleged that the Culvert near Oxford Road, to which the Committee had formerly objected, was one of the

principal impediments to the free current of the water, they deemed it their duty to address the Council again in relation to this river.

From discussions in the Council and elsewhere, it appeared that while the Municipal Committee, having charge of such matters, acknowledged the necessity of improvements in many respects, they averred they had, legitimately, no power to carry them into effect; and indeed it appeared that in the work they had already done, they had somewhat overstepped their legitimate authority.

In November, 1856, Mr. *Cawley* presented a Report to the Owners of Property on the banks of the river Medlock, and in concluding, made the following observation: "Whether the requisite alteration can be accomplished without obtaining the authority of Parliament will be a matter for your consideration; power is required not only to remedy the evil already existing, but also to prevent parties from improperly interfering with the bed of the stream or unduly contracting the water way; I cannot therefore avoid suggesting the propriety of establishing '*a Committee for the Conservancy of the River.*'" This suggestion having been brought under the notice and consideration of this Committee, they determined again to address the City Council, and express their opinion that such a Conservancy ought to be established. They then decided upon the following Memorial:—

TO THE WORSHIPFUL THE MAYOR, AND TO THE COUNCIL OF THE CITY OF
MANCHESTER.

The MEMORIAL of the Committee of the Manchester and Salford Sanitary
Association,

Respectfully sheweth,

That your Memorialists have heard, with great regret, of the injuries occasioned to property on the Banks of the river Medlock, by the Floods of August the 9th, 1856, and August the 15th, 1857.

That your Memorialists addressed the City Council of Manchester, in a Memorial, dated July 5th, 1854, expressing an opinion against certain arrangements, which the Council at that time proposed to make, in respect to the Culvert between the *Oxford-road* and Messrs. *Birley's* Mill; and recommending, in preference thereto, among other matters—

"That the course of the river Medlock should be made to approximate, as nearly as possible, to a Straight Line,

“ That all Angles in the Side Walls should be avoided, as facilitating the Accumulation of injurious Solid Matter, and that Curved Lines should be substituted.

“ That the Bed of the River should be paved; with either a curved or straight dip towards the centre.

“ That the Weir at Messrs. *Birley's* Mill should either be removed, or be so constructed as to facilitate the cleansing of the Bottom of the River.”

That your Memorialists cannot fail to observe, that what they then recommended from Sanitary considerations, has been since proved to be necessary, even in a much greater degree, for the Protection of Property against the Violence of sudden Floods.

That your Memorialists have demonstrated, in the case of the Bridgewater Canal at Knott Mill, that the Sewage Matter in suspension and solution in a Running Stream, can be precipitated by the Lime Process, at a comparatively trifling Cost; and that much of the Injury arising from the use of the Rivers as common Sewers, may by such means be prevented.

That your Memorialists regret, that with the Evidence they have furnished, and the abundance of other Evidence available to prove that the Nuisance of Sewer Rivers may be prevented, the City Council do not appear to have directed any active Steps to be taken towards the Abatement of the Nuisance.

That your Memorialists are now of opinion, that in order fully to protect the Inhabitants of the City from injurious consequences resulting from—

- 1st.—The flowing of Sewage into the Rivers;
- 2nd.—The raising of the Beds of the Rivers by the accumulation of Solid Refuse thrown therein;
- 3rd.—The Encroachments on the Banks, which narrow the Stream, and increase the violence of Floods;—

It is necessary that the Conservancy of the Rivers of Manchester be placed in the hands of the City Council; and, in the case of the Irwell, in conjunction with the Town Council of Salford.

Your Memorialists therefore venture most respectfully but earnestly to recommend to your Serious Consideration the Necessity for immediate Steps being taken to secure, under the authority of Parliament, the Conservancy of the Rivers of Manchester in your Hands.

Signed on behalf of the Committee,

C. RICHSON, M.A.,

Canon of Manchester, Chairman.

This document was presented to the Council on the 14th of November last, by Mr. Councillor *King*, and resulted in the passing of the appended Resolution :—

“That the Memorial from the Committee of the Manchester and Salford Sanitary Association, in relation to the Rivers of Manchester, be referred to the Committee for General Purposes ; and that they be instructed to inquire, and, so soon as prepared, to report as to the state of the Rivers within the City, and especially of the river Medlock, and be authorised to obtain such professional assistance as they may find necessary ; and also to prepare and publish such Notices as will enable the Council, either alone or in conjunction with other bodies or individuals, to apply for the requisite powers and authorities from Parliament, to divert, deepen, or otherwise improve and maintain the Channels of the Rivers, and especially of the river Medlock.”

In the course of the discussion on this subject, remarks were made upon the proceedings of the Committee, which induced them to pass the following Resolution ; copies of which were sent to all the Members of the Council :—

MINUTE OF GENERAL COMMITTEE, OCTOBER 26TH, 1857.

Read in the Local Newspapers of the 15th instant, Report of Proceedings of the Manchester City Council, on the Presentation of the above Memorial.

Resolved,

1. That the Committee of the Manchester and Salford Sanitary Association have felt it their duty to give attention to the state of the Rivers of Manchester, because they believe that the Sewage Matter contained therein is injurious to the Health of their Fellow-Citizens.

2. That in making the Experiment at the junction of the Medlock with the Bridgewater Canal, their object was not to determine the Place at which it would be proper to cause the Precipitation of Sewage Matter to be made,—*viz.*, whether as the water enters, passes through, or leaves the City of Manchester,—but merely to show the Practicability of precipitating Sewage Matter in Suspension and Solution in a Running Stream.

3. That the Committee have proved the Practicability of effecting such Precipitation, by the Lime Process, at a comparatively trifling Cost ; and that in their Memorial, addressed to the City Council on the 3rd September, 1856, they urged the co-operation of the Council with the Owners of Property on the Banks of the Canal, merely as an instal-

ment of the Sanitary improvements which were desirable in that direction. The views they entertained on that Subject being expressed as follows in the Memorial of 1856 :—

“ The purification of the Bridgewater Canal, when compared with the important subject of effectually preventing the use of the Rivers generally as Common Sewers, can be considered only as a preliminary Step.”

4. That the Committee have no doubt as to the vast importance of preventing the Admission of Sewage Matter into Rivers ; but they recommended the precipitating Process, both from economical Considerations in relation to an Evil already existing, and from regard to the urgency of the subject in a Sanitary point of view. Moreover the Committee do not think the fact ought to be disregarded that the Sewage Matter, after it passes from the Medlock into the Canal, is in a comparatively Stagnant Condition ; and as such the more injurious to Health, and demanding in consequence more urgent Attention.

5. That this Committee regret, that as the City Council do not appear to possess the requisite Powers for dealing with the Conservancy and Improvement of the Rivers in a satisfactory Manner, they did not endeavour to obtain such Powers before the Evils now complained of had attained their present Magnitude ; and they deem it the more urgent that the Council should endeavour to obtain such Powers with the least possible Delay.

The Committee are gratified in concluding this section of their Report to be able to state that the Council have given notice, in the Local Newspapers, of their intention to apply to Parliament for those powers, which this Committee ventured to assert as necessary ; and are proceeding to secure in their own hands a Conservancy of the Rivers, which it is hoped will be only the precursor of those great improvements, which, in a Sanitary aspect, the Rivers of Manchester require.

(ii.) *Other Subjects.*

The principal subjects on which the Committee have had occasion to confer with the Officers of the Corporation are the following :—

1. *Hydrants.*—A repetition of the complaint respecting the state

of the Hydrant in *Clarendon-street, Hulme*, and a similar complaint respecting the Hydrant in *Eliza-street, City Road, Hulme*, were addressed to the Committee. In both cases, the water supply was represented as affected by the Hydrants being placed in the channels of the streets. On this subject, the Committee requested their Secretaries to express to the Municipal Officers their opinion that Hydrants ought not to be placed in such positions.

2. *State of Water* in certain localities.—A sample of the water supplied in *Clifford-street, Chorlton-upon-Medlock*, having been sent to the Committee, and found to contain, on analysis by Dr. *Smith*, a considerable deposit of iron, the attention of the authorities was drawn to this circumstance. The subject was investigated by the Officers of the Corporation, but no very marked improvement has been the result.

The formation of deposits of any extraneous matter in the water-supply, ought, in all cases, to receive immediate attention; as they arise from accidental causes, which should be immediately rectified.

3. *The Drainage in the Stretford New Road*.—The insufficient means of drainage in that portion of the Stretford New Road, which is opposite to the Commercial Schools, having been brought under the notice of the Committee, they caused enquiries to be made on the subject; and from the plan of the main sewers in that neighbourhood, it appears that the sewerage of that part of the City is very defective, and requires the immediate attention of the Authorities.

(iii.)—*Services rendered by Officers of the Corporation.*

The Committee desire to express their great obligation to his Worship the Mayor, Sir *James Watts*, for having allowed the gratuitous use of the Town Hall, on the occasion of a Public Lecture; and to the following Alderman and Councillors, for presiding at Lectures in various parts of the City:—

Mr. Alderman *Bancroft*.

Messrs. Councillors *Parnell* and *Pratt*.

SALFORD TOWN COUNCIL.

The Committee have not had occasion to address the Town Council

of Salford, on any very important subject, during the past year; but the Committee desire to express their obligation to his Worship the Mayor, *Stephen Heelis*, Esq.,

And to Messrs. Aldermen *Harvey*, *Fuller*, *Kay*, *Radford*, and *Wanklyn*, for presiding at Lectures.

(II.)—*Operations of District Committees.*

The operations of the District Committees have been directed, during the last year, chiefly to the superintendence of the Lectures, with a view to obtain the largest possible attendances. They are, however, prepared, in most cases, to enter upon the resumption of those duties, which it is likely prospective events will render very important.

(III.)—*Public and Home Instruction of the People.*

The public interest evinced in the Lectures given under the sanction of the Association continues unabated. Numerous other Lectures, on kindred subjects, at Sunday Schools in connection with various places of Worship, relieved the Association from the duty of giving so extensive a course as heretofore; and proved that the effect of those given in previous years had produced a most beneficial influence, by calling public attention very strongly to the necessity of attending to Sanitary matters.

(i.) CENTRAL LECTURE.

In their last Report the Committee expressed a desire to obtain Lectures or Papers on Sanitary Subjects from men of science connected with the Metropolis or elsewhere. They accordingly secured a Lecture from *J. Buck*, Esq., *M.R.C.S.*, on “*Mr. Wicksteed’s* experiments at Leicester.” On this occasion, the use of the Town Hall was gratuitously allowed; as his Worship the Mayor considered the subject of great public importance. *Mr. Buck* gave his explanations with much

clearness, and took part subsequently in a general discussion on the subject.

The result of this Lecture and discussion tended, in the opinion of the Committee, still further to prove the practicability of precipitating the Sewage Matter in Rivers; and to confirm their opinion, that the means of effecting such precipitation, *at a commercial advantage*, have *not yet* been discovered.

(ii.) DISTRICT LECTURES.

The following Lectures were given during the last Session.

LECTURER.	Subject.	No. of Times repeated.	Places.
MR. T. TURNER, F.C.S. F.R.C.S.	<i>The Value of Life</i>	1	Town Hall, Salford.
Ditto	<i>Education and Home Management, as the great elements of Sanitary Reform.</i>	1	The Roby School, Aytoun-street.
Ditto	<i>Life, and the means of Preserving it in Health and Comfort.</i>	1	All Souls' Church School, Harding-street, Every-street, Ancoats.
Ditto	<i>Co-operation, and the Social Duties of Man.</i>	1	Ebenezer Wesleyan School, Red-bank.
Ditto	<i>Human Life</i>	1	St. Matthew's Church School, Camp-field, Deansgate.
REV. J. RICHARDSON, M.A.	<i>A Happy Fireside</i>	3	London-road District School, Fairfield-street. Angel-meadow Working Men's Association, Sharp-street, Rochdale-road. St. John's Church School, Mechanics' Institution, Miles Platting.
MR. JOHN BOUTFLOWER, F.R.C.S.	<i>The Ages of Man</i>	1	St. Simon's Church School, St. Simon's-street, Springfield-lane, Salford.
MR. A. SOMERS, M.R.C.S	<i>The injurious effects of Narcotics in general, and Tobacco in particular.</i>	1	The Independent School, New Windsor.
MR. J. DUNN	<i>The Evils of Dirt, and the Value of Cleanliness.</i>	2	St. Matthias' Church School, Broughton-road. The Wesleyan School, Chancery lane, Ardwick.

LECTURER.	Subject.	No. of Times repeated.	Places.
Mr. F. CRACE CALVERT, <i>Air.</i> F.C.S., M.R.A.T.		1	St. Barnabas' Church School, Elizabeth-street, Butler- street, Oldham-road.
Ditto	<i>Human Life.</i>	1	St. Matthew's Church School, Camp-field, Deansgate.
Ditto	<i>Food</i>	1	St. Thomas's Church School, Ardwick-green.
Dr. R. ANGUS SMITH, <i>Habits of Order observable in</i> F.C.S., F.R.S. <i>Nature.</i>		1	New Jerusalem School, Irwell- street, Salford.
Mr. C. E. CAWLEY, M.In.C.E.	<i>The Philosophy of Human Life.</i>	1	St. Matthew's Church School, Camp-field, Deansgate.
Mr. J. SHEPHERD FLET- CHER, M.R.C.S.	<i>The Duration of Human Life.</i>	2	St. Philip's Church School, Ridgeway-street, Bradford- road. St. Matthew's Church School, Camp-field, Deansgate.
Ditto	<i>The Healthy Developement of the Human Frame.</i>	1	Bank Meadow School, Pin Mill Brow.
Mr. A. J. SCOTT, M.A., Principal of Owens College.	<i>Health and Morals.</i>	1	Christ Church School, Hulme- street, Salford.
Mr. HOLDEN	<i>Contrasts ; or, how each Half of the World lives.</i>	1	St. Stephen's Church School, Bombay-street, Salford.
The Rev. G. B. BUBIER	<i>Home Truths for the Health of Home.</i>	1	Mechanics' Institution, Salford.
The Rev. ST. VINCENT BEECHEY, M.A.	<i>The Moon as a Sanitary Com- missioner.</i>	1	Town Hall, Salford.
Mr. R. W. LEDWARD, M.R.C.S.	<i>Popular Errors in Physiology.</i>	1	Chalmers' Presbyterian Church School, Piercy-street, Mill- street, Ancoats.
Mr. J. BUCK, M.R.C.S.	<i>The Operations of Thomas Wicksteed, Esq., M.In.C.E. for the Purification of the River Soar at Lei- cester.</i>	1	Town Hall, Manchester.
Total No. of Lectures		26	

(iii.) TRACTS.

No new Tracts were issued by the Committee during the last year; but a larger number was sold of those already published, than in former years; and the Committee had the satisfaction of finding it necessary to issue a new edition of Tract IV.

They are still however of opinion that it will be desirable to pub-

lish as soon as practicable, Tracts on the subjects mentioned in their last Report, viz. :—

1. “ *Hints on Clothing, in respect to Warmth and Shape.*”
2. “ *Articles of Food, their Varieties and Qualities.*”
3. “ *The Preparation of Food, particularly for the Working Classes.*”
4. “ *A Series of School Tracts on Sanitary Science.*”

The importance of the Tracts on the first three subjects will probably be increased by the condition of the Working Classes during the ensuing winter; and the Committee would therefore gladly receive special contributions to secure their issue.

(iv.) OTHER PUBLICATIONS.

The Committee have published in the course of the past year,—

1. A Report on “INDISCRIMINATE SALE OF POISONS,” with a Letter of *F. Crace Calvert, Esq.*, on the same subject.
2. A Report on the “INTERMENT OF THE DEAD,” with a Letter of *Dr. R. A. Smith, F.R.S.*, on the same subject.

(v.) PRIZES.

The Committee have been unable hitherto to avail themselves of *Dr. Radford's* kind offer to give a prize of *Three Guineas* for the best Essay on the subject he selected.

But they have resolved to offer the £5, given by *John Fernley, Esq.*, for the best Essay, written by a Working Man, on “The Homes of the Working Classes, with special reference to health, comfort, and economy.”

IV.—*Investigations and Inquiries, Scientific and otherwise.*

(i.) MORTALITY RETURNS.

The Committee desire to repeat their thanks to *Mr. Royston*, their Deputy Treasurer, for the attention he has continued to give this im-

portant subject. It will be remembered that the Committee are furnished, through Mr. *Royston*, every quarter (by the kind permission of the Registrar General and Superintendant Registrars of the Districts), with the precise house in which every death occurs, classed under the four heads of preventible disease.

The Tables, from unavoidable causes, are not ready for insertion in this Report, but will be prepared as an Appendix, and forwarded to every Subscriber. It may be remarked, however, in anticipation, that wherever there is any increase in the proportion of deaths from causes, classed under the head of preventible, it is to be attributed mainly to *Scarlet Fever*; which shows the great public importance of directing careful attention to the prevention of that disorder.

(ii.) CHOLERA.

The General Board of Health, in London, having issued a notification respecting Cholera, the Committee deemed it necessary that they should take some immediate steps on the subject; and accordingly they obtained the insertion, in the several newspapers, of the following abstract of the Notification, prepared by Mr. *Walmsley*, one of the Honorary Secretaries:—

“At a late meeting of the Manchester and Salford Sanitary Association, it was considered advisable to request the publication in the Local Journals of the following short summary of the precautionary advice issued by the General Board of Health to Local Boards of Health, with reference to epidemic Cholera, and thus put the Public generally in possession of the points to which, at the present time, it is desirable that their attention should be specially directed.

NOTICE.

“For the security of the Public Health, especially with reference to Cholera, and to epidemic diseases generally, the two most important conditions to be fulfilled are,—first, that the air within and about dwelling places be not contaminated with offensive organic effluvia, such as arise when the houses themselves are ill-ventilated, over-crowded, and unclean, or when their refuse is not properly removed from them by drainage or otherwise, or when filthy accumulations exist in their neighbourhood, or when the local sewerage is defective:—secondly, that the public supply of water be, as far as possible, unpolluted by any kind of animal or vegetable impurity; for no house can be considered

safe for habitation in which there is any offensive smell of animal refuse, or of other putrefactive animal or vegetable matter, and no water can be considered safe for drinking, into which there flows (as is often the case with rivers and wells in the neighbourhood of houses) any habitual discharge of town refuse, or any accidental soakage or leakage from drains or cesspools.

“Hence it becomes the interest of every one to secure efficient house ventilation, a good supply of pure water, and to urge upon Sanitary and Nuisance Inspectors the necessity of the utmost vigilance in every department of their duty; especially in reference to public scavenging, to the state of the sewers, to the removal of house refuse, and to the keeping of slaughter-houses and cattle sheds. The Medical Council of the General Board of Health, in a Report on the last outbreak of epidemic Cholera, after stating the absence of positive knowledge as to the exciting cause of the disease, remarks,—‘but, with this mystery still unsolved there has grown more and more into shape a doctrine which is both intelligible and practical,—that the undiscovered power, in its wanderings, acts after the manner of a ferment; and that it therefore takes effect only amid congenial circumstances, and that the stuff out of which it brews poison must be air or water, abounding with organic impurity.’”

F. H. WALMSLEY,

York Chambers, King-st.

Hon. Sec. M. and S. Sanitary Association.

The unanimous concurrence of all parties who have given attention to Cholera, as to the *preventibility* of its malignant influence, renders the duty most imperative of diffusing among the people a knowledge of those causes, by which it is induced or fostered; and accordingly the Committee are intending to prepare a Paper on this important subject, which in the course of the ensuing winter, they hope to distribute very extensively. They have further resolved to request the Lecturers in the ensuing Session, to direct their observations, wherever practicable, to the same subject.

The Committee notice with much satisfaction a Resolution of the Chorlton Committee to visit immediately all the localities, in their district, where Cholera was formerly prevalent; and they have no doubt that a like resolution will be adopted by every other District Committee.

(iii.) SEWER RIVERS AND SEWAGE.

The Committee acknowledge with thanks Mr. Cawley's kind per-

mission to make a copy of the Report on the River Medlock, which he prepared for the Owners of Property on the banks of that River.

Mr. *Richmond*, one of the Medical Officers of the Chorlton Union, has made some important remarks on the state of the Sewer Rivers, &c. in his district, which demand serious consideration:—"I can only regret," he says, "that the state of the Canal, Cornbrook, and Rivers Irwell and Medlock continue the same; affording, in Hulme, about NINETEEN ACRES of OPEN SEWERS."

The Committee have hitherto restricted their endeavours chiefly to obtaining some improvement in the condition of the Medlock and the Bridgewater Canal; but are not less aware of the need of giving equal attention to the state of other Rivers, and of the Cornbrook, and other Brooks used as open sewers at the present time. An attention to these subjects is the more necessary, because the usual habitat of Cholera, in seasons of severe visitation, is the angular portions of such Rivers and Brooks; and therefore the Committee venture to hope, that the public Authorities, having due regard to the health and lives of their fellow-citizens, will give their immediate and serious attention to the improvement of such places, before the appearance of the scourge, which may be reasonably expected.

(iii.) REPORTS OF SUB-COMMITTEES.

Sub-Committees have been appointed during the past year to report on the following subjects:—

(1.) *Ventilation of Cottage Residences.*

On this subject the Sub-Committee have not yet presented their report; but the Committee attach considerable importance to the obtaining of correct practical views in relation to it. No doubt the problem to be solved is, how to obtain sufficient Ventilation, by a self-acting agency, without the inconvenience of draught or irregular action. In the case of Cottages, the importance of such a mode of Ventilation cannot be over-rated; but if the Committee can arrive at satisfactory conclusions on this subject, they are prepared to enter upon the whole

question of the construction of Cottage residences, in relation to Sanitary arrangements.

(2.) *Interment of the Dead in Manchester.*

A Report upon this subject has been presented by the Sub-Committee, and has been printed, and widely circulated both among Members of the Legislature, and the Municipal Authorities of Manchester and Salford; copies have also been sent to the Members of the Association.

This Report, although intended to apply more especially to the Burial Places of Manchester, enters largely into a question of great preliminary importance, and on which Burial Ground arrangements in general should mainly depend, viz., "*the Chemical Dissolution of Bodies.*" For some valuable remarks on this subject, the Committee are indebted to Dr. R. A. Smith, F.R.S., and from whose Letter, appended to the Report, the following extracts deserve special consideration :—

"The gases from the living are noxious—in disease they are deadly, and even in health they become deadly by overcrowding; it is not then to be wondered at that the gases from the dead should be poisonous. It was one of the objects of the remarks made on this subject in the Committee's Report on Interments to show that these gases may be rendered perfectly innocent, and that by avoiding overcrowding we save ourselves equally from the dead and the living.

"The Report by no means professes to explain the phenomena of the chemical dissolution of bodies in that clear and distinct manner which it is desirable to do before enacting laws upon the subject. It seems therefore needful that the subject should either be more thoroughly studied before the law can be made sufficiently explicit; or, at least, that the laws should be tempered by the scientific knowledge existing, and relax their rigidity on those points where our information is itself uncertain.

"The Report recognises as the *first* point of importance the danger of Overcrowded Grave Yards, and, except under certain conditions allots a grave to every individual. But here we ought to take into consideration a *second* point less attended to, viz., the power of absolute Disinfection existing in the soil; or, in other words, the entire wholesomeness of the atmosphere over a well covered grave in a well drained soil, through which water is flowing; and this condition is general at the depth of a few feet in this country.

"These two conclusions, at which common sense has long ago arrived, may be

supported by science. They have been in danger of being set aside by extreme opinions, and some persons have even proposed a thorough resolution of the dead into their original (chemical) elements by fire, as the only release from the apprehended danger.

“Although the full elucidation of the whole Chemical process is still to be made, I am glad that we are able from sound data to assert that the ground may be made to cover up every taint of impurity, if we adhere strictly to reasonable conditions; and that we may not only go to our graves in peace without fear of poisoning those who visit them, but may also visit the graves of our friends, without turning away with Sanitary disgust.”

The Committee owe their best thanks to the following gentlemen who composed the Sub-Committee on “Interments :”—Messrs. *Isaac Holden*, Chairman, *W. Booth*, *W. H. Shaw*, *Dr. R. A. Smith*, F.R.S., and the Honorary Officers.

(3.) *Indiscriminate Sale of Poisons.*

The Report on this subject, printed and circulated as that on Interments, has been acknowledged to deserve serious consideration by at least one branch of the Legislature.

To *Ernest Reuss*, Esq., the Committee are under renewed obligation for a Report obtained from his friend *Dr. Briskin*, Royal Physician of Elberfeld, respecting the regulations adopted in Prussia, on this subject; and they have also to express a like obligation to Professor *F. Crace Calvert*, for his valuable suggestions on the use of *Carbo-azotic Acid*, as an effectual means of colouring arsenical poisons.

The Bill for regulating the Sale of Poisons recently introduced into the House of Lords, accorded in many respects with the recommendations of this Report; and the opinions expressed by Mr. *Calvert*, in an appended Letter, caused him to be summoned before their Lordships' Committee to be examined upon the subject.

The peculiarities of *Carbo-azotic Acid*, as fitting it for the purposes here specified, are represented by Mr. *Calvert* to be the following :—

1. “Its extraordinary colouring power.
2. “Its intensely bitter taste.
3. “Its extraordinary power of giving a yellow coloration to the skin or epidermis.

4. "The strong coloration it imparts to food."

The Committee record their thanks to the following gentlemen, who acted on this Sub-Committee; Messrs. *T. Turner*, F.R.C.S., Chairman; *J. Boutflower*, F.R.C.S.; Dr. *E. Frankland*, F.R.S.; *F. Crace Calvert*, F.C.S., &c. *W. H. Shaw*, and the Secretaries; and here the Committee cannot omit to notice the very important services which the SECRETARIES have from time to time rendered to the Association.

(V.)—*General Subjects which have received the attention of the Committee.*

Among subjects of this character, the following may be mentioned:—

(i.) *Grave Yards.*

In several instances the Committee have noticed the relaxation of the Orders in Council, for the Closing of Graveyards within the City of Manchester; and they regret this the more, because it has been occasioned by the still-continued want of a suitable Burial Ground for the City. The difficulty of obtaining an eligible site appears to be felt by the Corporate Authorities, who are now, by Act of Parliament, Trustees of the funds for the purchase of a Parish Burial Ground; and, as it is by no means unlikely that, in the absence of compulsory powers, they will be unable to obtain a proper site, the urgency of the case would, in the opinion of the Committee, justify the introduction of suitable provisions in one of the Bills intended to be presented to Parliament in the next Session.

(ii.) *Cellar Dwellings.*

The attention of the Committee has been directed to the continued use of Cellars, in several parts of Manchester, unfit for human habitation; but they hope, by bringing such places under the notice of the Authorities, their use will be suppressed.

(iii.) *Special Plans for the Prevention of Smoke.*

In former Reports the Committee have entered more at large into their proceedings in respect to the Smoke Nuisance ; they do not however contemplate abandoning their efforts in that direction ; but at present they will only state, that through the kindness of Mr. *Longridge*, they have been able to obtain reports on an experiment which was made to prevent the escape of Black Smoke, by the admixture of Salt and Lime in certain proportions with the fuel. From data kindly furnished by Dr. *Frankland*, the following analysis of the gases thrown off, was obtained:—

Nitrogen.....	79.9
Oxygen	14.9
Carbonic Acid	4.5
Carbonic Oxide	.7
	100.0

“ The bulk of Smoke was about the same in quantity as when the composition was not used, but the colour was changed from almost black to white, and there was no appearance of sulphur or carbon being emitted.”

(iv.) *Meteorological Report.*

The Committee have had under consideration the advantage which would result from a series of Meteorological observations, in connection with the rate of mortality at different periods and in different localities ; but at present they have not determined to take any steps on the subject. From the remarks kindly addressed to them by Mr. *Vernon*, they quote the following as deserving serious public attention:—

“ If daily observations were made with a dry and wet bulb thermometer, accompanied by daily reading of a maximum and minimum

thermometer in the shade, a very valuable series of observations would be obtained, especially if made in several districts of the town."

"In Mr. *Glaisher's* very valuable Report upon the Epidemic of CHOLERA, the peculiar condition of the atmosphere which prevailed during the three visitations of 1832, 1849, and 1854, is very clearly shown. The principal points were, a very high reading of the Barometer, accompanied by a very thick atmosphere; prevalence of mist, which in low situations, was remarkably dense; a very high temperature, considerably above the average; absence of rain; a deficiency of electricity, and no perceptible movement in the air. In both 1849 and 1854, as soon as the Barometer began to fall, accompanied by a strong wind from the South West, the virulence of the disease gradually abated.

"One very important point of observation is the temperature of Rivers traversing large towns, especially where they are used as Open Sewers.

"The mean temperature of the Thames water during the prevalence of CHOLERA was very considerably above its average, and above the mean temperature of the air above it; showing that a polluted stream of this kind must impregnate the atmosphere to a very large extent, with poisonous exhalations."

(VI.)—*Correspondence on Sanitary Subjects.*

The principal correspondence of the Committee, during the past year, with persons at a distance, has been the following:—

1. Mr. *Franks*, of Gloucester, for information respecting the experiments for purifying the Duke of Bridgewater's Canal, to be sent to a friend of his in America.
2. *The National Association for the promotion of Social Science*, to send Representatives to attend the Meeting at Birmingham, which the Committee declined.
3. Mr. *Gatliffe*, secretary of the "Metropolitan Association for

improving the Dwellings of the Industrious Poor," for copies of the publications of the Association.

(VII.)—*Financial Position of the Association.*

The Committee having, on a former occasion, found it inconvenient to allow their expenditure to exceed their income, felt it their duty to endeavour, by all means, to place themselves in a different position for the future; and they are gratified in being able at length to report that, by much economy, and, chiefly, through the careful management of their financial affairs, by their Deputy Treasurer, Mr. *Royston*, they have now, at the Bankers, a balance of £75 in their favour. They trust, therefore, the Members of the Association generally will approve of their proceedings in this respect; particularly as the prudence of such a course will be the more apparent, under the prospective demands upon their funds, which the threatened visitation of Cholera indicates.

The Committee have much satisfaction therefore in referring to the state of their Treasurer's Report; but in so doing, they cannot omit to express their regret that *Arthur H. Heywood*, Esq., to whom the Association is under so many and great obligations for his valuable services generally, and his liberal contributions to their funds, feels himself obliged to resign the office of Treasurer, which he has held since the commencement of the Association. The Committee cannot, however, allow him to retire from that office, without expressing to him their high appreciation of the services he has so kindly and constantly rendered to the Association.

VIII.—*Conclusion.*

By the kind Providence of God, this district having been free during the past year from all serious Epidemics, the Committee have been able to direct more attention than ordinary to the means of preventing disease, and promoting the general health. But as a different state of things is probably at hand, they trust the friends of the Association will adequately exert themselves, both by the supply of

additional funds, and wherever it is practicable, by personal assistance, not so much to meet the exigencies that may arise, and which will no doubt be met by the proper Authorities, as to avail themselves of every opportunity to recommend and enforce the policy of preventing Epidemics, rather than of merely mitigating their evil effects, at the periods of their visitation.

The Committee have repeatedly taken into consideration how far such services as they are endeavouring to render are required by the circumstances of this district, and the general state of knowledge of the People in respect to Sanitary subjects. Of the necessity of such services, they themselves are more and more convinced; but while willing to do what they are able, they must look to the liberality of their fellow-citizens for the pecuniary aid, which is necessary to carry on their operations. They trust, therefore, an appeal for pecuniary assistance, more particularly in the ensuing year, will not be made in vain; but inasmuch as funds are indispensable for properly carrying into effect the objects of this Association, the Committee must regard the supply or refusal of those funds, as the expression of public opinion respecting the necessity or otherwise of the continuance of the Association.

1857.		1857.	
	£. s. d.		£. s. d.
Dec. 7. To Balance in Bank, Nov. 27, 1856	31 11 11	Dec. 7 By Rent and Taxes	41 8 9
" Subscriptions.....£280 0 6		" Printing and Stationery	79 16 2
" Donations	36 16 0	" Annual and Interment Reports	25 2 0
" —————	316 16 6	" District Committee Expenses ..	11 19 6
" Rent	3 15 0	" Advertising.....	22 17 6
" Interest allowed by Bank.....	2 15 3	" Assistant Secretary's Salary.	52 0 0
		" Wages of Boy, Office Expenses, and Petty	
		Cash	32 16 8
		" Commission allowed to Collector.....	12 4 4
		" " charged by Bank	19 10
		" Balance in Bank.....	75 13 11
	<u>£354 18 8</u>		<u>£354 18 8</u>

Balance brought forward£75 13 11

Manchester, December, 7th, 1857.—Examined and found correct :—

A. H. HEYWOOD.
 ERNEST REUSS.
 WM. ROYSTON.

ARTHUR H. HEYWOOD, Esq., Treasurer, in Account with the Manchester and Salford Sanitary Association.

Dr.

TRACT FUND.

Cr.

		1857.	
		£	s. d.
Dec. 7.	To balance in Bank, Nov. 27, 1856.	29	12 10
"	" Interest allowed by Bank	1	0 9
"	" Cash for Tracts sold.....	1	16 10
		£32 10 5	
		£32 10 5	

Balance brought forward.....£27 0 5

1857.

July 31. By Printing

Dec. 7. „ Balance in Bank

£ s. d.
5 10 0
27 0 5

£32 10 5

Manchester, December 7th, 1857.—Examined and found correct:—

A. H. HEYWOOD.

ERNEST REUSS.

WM. ROYSTON.

MEMBERS FROM DONATIONS IN FORMER YEARS.

	£	s.	d.
Barbour Robert, Esq.	10	0	0
Benyon Miss, (Clifton).	5	0	0
Brooks Samuel, Esq.	5	0	0
Chadwick R., Esq.	20	0	0
Coultate E., Esq.	5	0	0
Ellesmere, The Earl of.	5	0	0
Gardner Robert, Esq.	5	5	0
Gillibrand P., Esq.	5	0	0
Heywood E. S., Esq.	20	0	0
Heywood Sir B., Bart.	5	5	0
Heywood Arthur H., Esq.	5	0	0
Heywood James, Esq.	5	0	0
Heywood Oliver, Esq.	5	0	0
Houldsworth Henry, Esq.	5	0	0
Jones R. Jennings, Esq.	5	0	0
Jones W. C., Esq.	5	0	0
Macintosh, Messrs. C. and Co.	5	5	0
Potters and Norris, Messrs. . .	5	5	0
Plant James, Esq.	5	0	0
Schunck, Souchay, and Co.	5	0	0
Spafford George, Esq.	5	5	0
Taylor J. E., Esq.	5	5	0
Todd and Coston, Messrs.	5	0	0
Turner J. Aspinall, Esq.	5	0	0
Watkins W. B., Esq.	10	0	0
Wood W. Rayner, Esq.	5	0	0

DONATIONS AND SUBSCRIPTIONS

DURING THE YEAR 1855—6.

	Donations.			Subscriptions.		
	£	s.	d.	£	s.	d.
Ashton, Messrs. Samuel and Thomas.				2	2	0
Atherton James, Esq.				2	2	0
Agnew Thomas, Esq.				1	1	0
Andrew Henry, Esq.				1	1	0
Ashton F., Esq.				1	1	0
Ashworth Joseph, Esq.				1	1	0
Ashworth Thomas, Esq.				1	1	0
Atkinson F., Esq.				1	1	0
Atkinson and Gould, Messrs.				1	1	0
Aslan J. G., Esq.				0	10	6
Bannerman J., Esq.				1	1	0
Barbour, Messrs. R. and Brother.				2	2	0
Bardsley Sir James, M.D.				2	2	0
Barnes Robert, Esq.				2	2	0
Bayley and Craven, Messrs.				2	2	0
Behrens, Messrs. S. L. and Co.				2	2	0
Bellhouse, Messrs. J. and W.				2	2	0
Birley Richard, Esq.				2	2	0
Brooks S., Esq.				2	2	0
Brown, Messrs. J., Son, and Co.				2	2	0
Butterworth and Brooks, Messrs.				2	2	0
Butterworth J., Esq.				2	2	0
Bannerman J. A., Esq.				1	1	0
Barge Thomas, jun., Esq.				1	1	0
Bazley Thomas, Esq.				1	1	0
Behrens Jacob, Esq.				1	1	0
Bellhouse E. T., Esq.				1	1	0

	Donations.			Subscriptions.		
	£	s.	d.	£	s.	d.
Bellhouse D., Esq.....				1	1	0
Bennett, Messrs. J. M. and H. A. (A. and L. R. Dist., p. 38.)				..	..	
Beresford and Southern, Messrs.				1	1	0
Bleackley J., (A. and L. R. Dist.)				..	..	
Bazley Henry, Esq.				1	1	0
Brandt R. C., Esq.....	2	0	0			
Beaver J. H., Esq.....	1	1	0			
Booth Wm., Esq., (A. and L. R. Dist.).....				..	..	
Boutflower J., Esq.....				1	1	0
Brownbill T. F., Esq.				1	1	0
Browne Dr. Henry.				1	1	0
Bunting T. P., Esq.				1	1	0
Bury Henry, Esq.....				1	1	0
Birch William, Esq.....				1	0	0
Birks E. B., Esq.				1	0	0
Boschetti M., Esq.....				1	0	0
Barker N., Esq.....				0	10	6
Birch Rev. Ed., M A.				0	10	6
Bowman E., Esq.				0	10	0
Capes W. H., Esq.....				2	2	0
Cardwell, Messrs. Thomas and Co.				2	2	0
Carlton, Messrs. J., Walker, and Co.				2	2	0
Clifton Rev. Canon.				2	2	0
Cunliffe and Bury, Messrs.				2	2	0
Calvert F. Crace, Esq.				1	1	0
Carver, Brothers, and Co., Messrs.				1	1	0
Carver William, Esq., (A. and L. R. Dist.).....				..	..	
Cave and Sever, Messrs.....				1	1	0
Chadwick David, Esq.				1	1	0
Chadwick John, Esq., (A. and L. R. Dist.)				..	..	
Clayton J., Esq.....				1	1	0
Cope, Messrs. R. F. and R.				1	1	0
Crompton Thomas, Esq.....				1	1	0
Crook J., Esq.....				1	1	0
Crook John, (A. and L. R. Dist.).....				..	..	
Cunliffe and Sons, Messrs., (A. and L. R. Dist)				..	..	
Crum Walter Messrs., and Co.				1	1	0
Consterdine and Co., Messrs.				1	1	0
Copeland and Hibbert, Messrs.....				1	1	0
Consterdine, Joseph, Esq.....	5	0	0	1	1	0

	Donations.			Subscriptions.		
	£	s.	d.	£	s.	d.
Dilworth J., Esq.	1	1	0			
Dixon, Galloway, and Co., Messrs.				1	1	0
Dugdale John, Esq.				1	1	0
Dalton J., Esq.				0	2	6
Entwisle William, Esq.				2	2	0
Earwaker and Challen, Messrs.				1	1	0
Falkner George, Esq.				2	2	0
Fletcher Samuel, Esq., (Parker-street)				2	2	0
Fletcher, Messrs. S., Son, and Co.				2	2	0
Fairbairn, Messrs. William and Sons, (A. and L. R. Dist.) ..				..	..	
Farbridge, Messrs. R. J., and Co.				1	1	0
Fernley John, Esq.				1	1	0
Findlater and Mackie, Messrs.				1	1	0
Froggatt Robert, Esq. ..				1	0	0
Fletcher H., Esq.				0	10	6
Franklin I. A., Esq.				0	10	6
Gardner Robert, Esq.				2	2	0
Gladstone, Messrs. R., and Co.				2	2	0
Glover and Dunn, Messrs.				2	2	0
Gould John, Esq.				2	2	0
Gaskell Rev. William.				1	1	0
Gibson Rev. N. W.				1	1	0
Glover, Messrs. William, and Co.				1	1	0
Graham, Messrs. William, and Co.				1	1	0
Grover J. G., Esq.				1	1	0
Gregson J. S., Esq.				0	10	6
Gaskin J., Esq., (A. and L. R. Dist.) ..				..	..	
Gill W. C., Esq.				0	10	6
Gill G., Esq.				0	5	0
Heald, Wilson, and Co., Messrs.				5	5	0
Harter J. C., Esq.				2	2	0
Harter William, Esq.				2	2	0
Heywood Arthur H., Esq.				2	2	0
Heywood Sir Benjamin, Bart.				2	2	0
Heywood E. S., Esq.				2	2	0
Heywood Oliver, Esq.	10	0	0	2	2	0

	Donations.			Subscriptions.		
	£	s.	d.	£	s.	d.
Henry Alexander, Esq.....				2	2	0
Hickson Charles, Esq.				2	2	0
Hunter Thomas, Esq.				2	2	0
Houldsworth Henry, Esq.....				2	0	0
Huschké A. H., Esq.....				2	0	0
Hald E., Esq.....				1	1	0
Haslam James, Esq.....				1	1	0
Holden Isaac, Esq.....				1	1	0
Houldsworth, Messrs. James, and Co.....				1	1	0
Howorth Joseph, Esq.				1	1	0
Henry J. S., Esq.....				1	1	0
Horner J., Esq.				0	5	0
Ireland, Messrs. Alexander, and Co.....				1	1	0
Jewsbury and Crux, Messrs.....				2	2	0
Jones R. Jennings, Esq.				2	2	0
Jones W. C., Esq.....				2	2	0
Jackson, Messrs. E. and J., and Co.....				1	1	0
Jackson H. B., Esq.....				1	1	0
James and Chabot, Messrs.				1	1	0
Johnson Rev. W. W.....				1	0	0
Jackson J. W., Esq.				1	0	0
Johnson J., Esq.....				0	10	0
Kay, Richardson, and Co., Messrs.....				2	2	0
Kershaw James, Esq., M.P.....				2	2	0
Kershaw, Leese, and Co., Messrs.				2	2	0
Kettlewell and Drabble, Messrs. (Calcutta)				2	2	0
Kipping J. S., Esq.				1	1	0
Keighley J., Esq.				1	1	0
Kelly, Peak, and Barry, Messrs.....				1	1	0
Kipping J., Jun., Esq.....				0	5	0
Knight C. H., Esq., (A. and L. R. Dist.)				..	..	
Lees, Duncan, and Daniel, Messrs.....				3	3	0
Langworthy, Brothers, and Co., Messrs.....				2	2	0
Langton W., Esq.....				2	2	0
Leissler John, Esq.				2	2	0
Lee D., Esq.				2	2	0

	Donations.			Subscriptions.		
	£	s.	d.	£	s.	d.
Leppoc H. J., Esq.....				2	2	0
Lucas Philip, Esq.....				2	2	0
Le Mare E. R., Esq.....				1	1	0
Lings T., Esq.....				1	1	0
Lee Henry, Esq.				1	1	0
Lee J. B., Esq.				1	1	0
Longridge R. B., Esq.				1	1	0
Lamb Mr. Councillor.				0	10	0
Lawson J., Esq.....				0	5	0
Manchester, the Right Rev. the Lord Bishop of	10	0	0			
Macintosh, Messrs. Charles, and Co.				2	2	0
Mc.Connel J., Esq.				2	2	0
Mc.Connel W., Esq.				2	2	0
Mc.Laren, Messrs. James, and Nephew.....				2	2	0
Munn, Messrs. John, and Co.				2	2	0
Makin and Walker, Messrs.....				1	1	0
Marsden Richard, Esq.....				1	1	0
Marsland and Hole, Messrs.....				1	1	0
Marsland Miss				1	1	0
Mayson John, Esq.				1	1	0
Mc.Clure, Messrs. John and Son.....				1	1	0
Mc.Connel H., Esq.				1	1	0
Mc.Nair, Greenhow, and Co., Messrs.....				1	1	0
Mc.Naughten and Co., Messrs.....				1	1	0
Micholls Horatio, Esq.....				1	1	0
Mitchell S., Esq.				1	1	0
Morris W., Esq.....				1	1	0
Margerisons and Co., Messrs.				1	0	0
Mc.Clure William, Esq.				1	0	0
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